

## AIR QUALITY PERMIT

Issued To: JTL Group, Inc. - Belgrade  
P.O. Box 9  
Belgrade, MT 59714

Permit #4068-00  
Application Complete: 4/6/07  
Preliminary Determination Issued: 4/19/07  
Department Decision Issued: 05/07/07  
Permit Final: 05/23/07  
AFS #: 777-4068

An air quality permit, with conditions, is hereby granted to JTL Group, Inc. (JTL), pursuant to Sections 75-2-204 and 211 of the Montana Code Annotated (MCA), as amended, and the Administrative Rules of Montana (ARM) 17.8.740, *et seq.*, as amended, for the following:

### Section I: Permitted Facilities

#### A. Permitted Equipment

JTL operates a portable truck mix concrete batch plant. A complete list of the permitted equipment is contained in Section I.A of the permit analysis.

#### B. Plant Location

JTL operates a portable truck mix concrete batch plant operation, which will initially be located at 47477 Gallatin Road, Big Sky, Montana in the NE ¼ Section 5, Township 7 South, Range 4 East, in Gallatin County, Montana. However, Permit #4068-00 applies while operating at any location in Montana, except within those areas having a Department of Environmental Quality (Department)-approved permitting program, or those areas considered tribal lands. *A Missoula County air quality permit will be required for locations within Missoula County, Montana.*

Addendum #1 applies to the JTL facility while operating at any location in or within 10 kilometers (km) of nonattainment areas for particulate matter with an aerodynamic diameter of 10 microns or less (PM<sub>10</sub>) during the summer months (April 1 – September 30) and at sites approved by the Department during the winter months (October 1 – March 31). A complete list of the permitted equipment is contained in Section I.A of the permit analysis.

### Section II: Limitations and Conditions

#### A. Emission Control Requirements

1. JTL shall install, operate, and maintain a fabric filter dust collector and a rubber boot load-out spout (ARM 17.8.752):
  - a. JTL shall install, operate, and maintain a fabric filter dust collector on every cement and cement supplement silo ventilation opening; and
  - b. JTL shall install, operate, and maintain a rubber boot load-out spout on every product loadout opening on the concrete plant, where cementations and aggregate materials are transferred for mixing.

2. JTL shall not cause or authorize to be discharged into the atmosphere from the ready mix plant:
  - a. Any vent emissions that exhibit an opacity of 20% or greater averaged over 6 consecutive minutes (ARM 17.8.304 and ARM 17.8.752).
  - b. Any fugitive emissions from the source or from any material transfer operations, including, but not limited to, truck loading or unloading, which exhibit an opacity of 20% or greater averaged over 6 consecutive minutes (ARM 17.8.308 and ARM 17.8.752).
3. JTL shall have water and water spray bars available on site at all times and operated, as necessary, to prevent visible fugitive emissions from the conveyors (ARM 17.8.752).
4. JTL shall not cause or authorize to be discharged into the atmosphere from any street, road, or parking lot any visible fugitive emissions that exhibit an opacity of 20% or greater averaged over 6 consecutive minutes and must take reasonable precautions to control emissions of airborne particulate matter (ARM 17.8.308 and ARM 17.8.752).
5. JTL shall treat all unpaved portions of the haul roads, access roads, parking lots, and the general plant area with water and/or chemical dust suppressant as necessary to maintain compliance with the reasonable precautions limitation in Section II.A.4 (ARM 17.8.752).
6. Total concrete plant production shall be limited to 876,000 cubic yards of concrete during any rolling 12-month time period (ARM 17.8.749).
7. JTL shall operate one diesel generator, with a maximum rated design of 205 kilowatts (kW) (equivalent to 275 horsepower (HP)) (ARM 17.8.749).
8. JTL shall comply with all applicable standards and limitations, and the reporting, record keeping, and notification requirements contained in 40 CFR Part 60, Subpart IIII, Standards of Performance for Stationary Compression Ignition Internal Combustion Engines, for any applicable diesel engines (ARM 17.8.340, 40 CFR 60, Subpart IIII).
9. If the permitted equipment is used in conjunction with any other equipment owned or operated by JTL, at the same site, production shall be limited to correspond with an emission level that does not exceed 250 tons of emissions during any rolling 12-month time period. The Department shall approve any calculations used to establish production levels (ARM 17.8.749).

B. Emissions Monitoring

1. JTL shall inspect the fabric filter dust collector and its vents, which are used for controlling emissions from the silo and weigh hopper, every 6 months of operation to ensure that each collector is operating at the optimum efficiency. Records of inspections, repairs, and maintenance shall be kept for a minimum of 5 years (ARM 17.8.749).

2. JTL shall maintain on-site records of inspections, repairs, and maintenance. All records compiled in accordance with this permit shall be maintained by JTL as a permanent business record for at least 5 years following the date of the measurement, shall be submitted to the Department upon request, and shall be available at the plant site for inspection by the Department (ARM 17.8.749).

C. Testing Requirements

1. All compliance source tests shall be conducted in accordance with the Montana Source Test Protocol and Procedures Manual (ARM 17.8.106).
2. The Department may require further testing (ARM 17.8.105).

D. Operational Reporting Requirements

1. If this concrete batch plant is moved to another location, an Intent to Transfer Form must be sent to the Department. In addition, a Public Notice Form for Change of Location must be published in a newspaper of general circulation in the area to which the transfer is to be made, at least 15 days prior to the move. The Intent to Transfer Form and the proof of publication (affidavit) of the Public Notice Form for Change of Location must be submitted to the Department prior to the move. These forms are available from the Department (ARM 17.8.765).
2. JTL shall maintain on-site records showing daily hours of operation and daily production rates, for the last 12 months. All records compiled in accordance with this permit must be maintained by JTL as a permanent business record for at least 5 years following the date of the measurement, must be submitted to the Department upon request, and must be available at the plant site for inspection by the Department (ARM 17.8.749).
3. JTL shall supply the Department with annual production information for all emission points, as required by the Department, in the annual emission inventory request. The request will include, but is not limited to, all sources identified in the most recent emission inventory report and sources identified in Section I.A of the permit analysis.

Production information shall be gathered on a calendar-year basis and submitted to the Department by the date required in the emission inventory request. Information shall be in the units required by the Department. This information may be used for calculating operating fees, based on actual emissions from the facility, and/or to verify compliance with permit limitations (ARM 17.8.505).

4. JTL shall notify the Department of any construction or improvement project conducted, pursuant to ARM 17.8.745, that would include a change in control equipment, stack height, stack diameter, stack flow, stack gas temperature, source location, or fuel specifications, or would result in an increase in source capacity above its permitted operation or the addition of a new emission unit. The notice must be submitted to the Department, in writing, 10 days prior to startup or use of the proposed de minimis change, or as soon as reasonably practicable in the event of an unanticipated circumstance causing the de minimis change, and must include the information requested in ARM 17.8.745(l)(d) (ARM 17.8.745).

5. JTL shall document, by month, the amount of concrete produced. By the 25<sup>th</sup> day of each month, JTL shall calculate the total amount of concrete produced during the previous month. The monthly information will be used to verify compliance with the rolling 12-month limitation in Section II.A.6. The information for each of the previous months shall be submitted along with the annual emission inventory (ARM 17.8.749).

### SECTION III: Addendum

JTL shall comply with all conditions in Addendum #1 to MAQP #4068-00, as applicable (ARM 17.8.749).

### Section IV: General Conditions

- A. Inspection – JTL shall allow the Department's representatives access to the source at all reasonable times for the purpose of making inspections or surveys, collecting samples, obtaining data, auditing any monitoring equipment or observing any monitoring or testing, and otherwise conducting all necessary functions related to this permit.
- B. Waiver – The permit and all the terms, conditions, and matters stated herein shall be deemed accepted if JTL fails to appeal as indicated below.
- C. Compliance with Statutes and Regulations – Nothing in this permit shall be construed as relieving JTL of the responsibility for complying with any applicable federal or Montana statute, rule, or standard, except as specifically provided for in ARM 17.8.740, *et seq.* (ARM 17.8.756)
- D. Enforcement – Violations of limitations, conditions and requirements contained herein may constitute grounds for permit revocation, penalties or other enforcement as specified in Section 75-2-401, *et seq.*, MCA.
- E. Appeals – Any person or persons jointly or severally adversely affected by the Department's decision may request, within 15 days after the Department renders its decision, upon affidavit setting forth the grounds therefore, a hearing before the Board of Environmental Review (Board). A hearing shall be held under the provisions of the Montana Administrative Procedures Act. The filing of a request for a hearing does not stay the Department's decision, unless the Board issues a stay upon receipt of a petition and a finding that a stay is appropriate under Section 75-2-211(11)(b), MCA. The issuance of a stay on a permit by the Board postpones the effective date of the Department's decision until conclusion of the hearing and issuance of a final decision by the Board. If the Board does not issue a stay, the Department's decision on the application is final 16 days after the Department's decision is made.
- F. Permit Inspection – as required by ARM 17.8.755, Inspection of Permit, Department personnel shall make a copy of the air quality permit available for inspection at the location of the permitted source.
- G. Permit Fee – Pursuant to Section 75-2-220, MCA, as amended by the 1991 Legislature, failure to pay the annual operation fee by JTL may be grounds for revocation of this permit, as required by that section and rules adopted thereunder by the Board.

- H. Construction Commencement – Construction must be begin within 3 years of permit issuance and proceed with due diligence until the project is complete or the permit shall be revoked (ARM 17.8.762).
- I. The Department may modify the conditions of this permit based on local conditions of any future site. These factors may include, but are not limited to, local terrain, meteorological conditions, proximity to residences, etc.
- J. JTL shall comply with the conditions contained in this permit while operating in any location in Montana, except within those areas that have a Department-approved permitting program.

## I. Introduction

### A. Permitted Equipment

JTL Group, Inc. (JTL) operates a portable truck mix concrete batch plant (maximum production rate of 100 cubic yards per hour), which includes the following:

- 3 aggregate feed bins with 3 conveyors (100 tons per hour each),
- 2006 Stephens three 70-ton aggregate compartment storage bins,
- 2006 Stephens aggregate batcher and transfer conveyor (200 tons per hour);
- Cement supplement (fly ash) silo with baghouse;
- 2006 Stephens cement silo with cement batcher. A fabric filter dust collector controls particulate matter (PM) emissions from the cement silo and a rubber boot load-out spout controls PM emissions from the cement batcher; and
- 1993 Caterpillar diesel generator (205 kilowatt (kW), or 275 horsepower (HP)).

### B. Process Description

For a typical operational setup, stockpiles of sand and gravel for concrete production are stored on site. A loader transfers the sand and gravel from the stockpiles to a weight hopper and the sand and gravel is then conveyed into the batch plant. The cement silo and cement supplement silos transfer the cement and cement supplement (fly ash) into the batch plant where water is added. The sand, gravel, cement and cement supplement, and water are then loaded into mixing trucks where the materials are mixed together to form concrete. The concrete is then transferred to various construction operations.

## II. Applicable Rules and Regulations

The following are partial explanations of some applicable rules and regulations that apply to the facility. The complete rules are stated in the Administrative Rules of Montana (ARM) and are available, upon request, from the Department of Environmental Quality (Department). Upon request, the Department will provide references for locations of complete copies of all applicable rules and regulations, or copies where appropriate.

### A. ARM 17.8, Subchapter 1 - General Provisions, including, but not limited to:

1. ARM 17.8.101 Definitions. This rule is a list of applicable definitions used in this subchapter, unless indicated otherwise in a specific subchapter.
2. ARM 17.8.105 Testing Requirements. Any person or persons responsible for the emission of any air contaminant into the outdoor atmosphere shall, upon written request of the Department, provide the facilities and necessary equipment (including instruments and sensing devices) and shall conduct tests, emission or ambient, for such periods of time as may be necessary, using methods approved by the Department.
3. ARM 17.8.106 Source Testing Protocol. The requirements of this rule apply to any emission source testing conducted by the Department, any source, or other entity as required by any rule in this chapter, or any permit or order issued pursuant to this chapter, or the provisions of the Montana Clean Air Act, 75-2-101, *et seq.*, Montana Code Annotated (MCA).

JTL shall comply with all requirements contained in the Montana Source Test Protocol and Procedures Manual, including, but not limited to, using the proper test methods and supplying the required reports. A copy of the Montana Source Test Protocol and Procedures Manual is available from the Department upon request.

4. ARM 17.8.110 Malfunctions. (2) The Department must be notified promptly by telephone whenever a malfunction occurs, which can be expected to create emissions in excess of any applicable emission limitation, or to continue for a period greater than 4 hours.
5. ARM 17.8.111 Circumvention. (1) No person shall cause or permit the installation or use of any device or any means that, without resulting in reduction in the total amount of air contaminant emitted, conceals or dilutes an emission of air contaminant that would otherwise violate an air pollution control regulation. (2) No equipment that may produce emissions shall be operated or maintained in such a manner as to create a public nuisance.

B. ARM 17.8, Subchapter 2 - Ambient Air Quality, including, but not limited to:

1. ARM 17.8.210 Ambient Air Quality Standards for Sulfur Dioxide
2. ARM 17.8.211 Ambient Air Quality Standards for Nitrogen Dioxide
3. ARM 17.8.212 Ambient Air Quality Standards for Carbon Monoxide
4. ARM 17.8.220 Ambient Air Quality Standard for Settled Particulate Matter
5. ARM 17.8.223 Ambient Air Quality Standard for PM<sub>10</sub>

JTL must comply with the applicable ambient air quality standards.

C. ARM 17.8, Subchapter 3 - Emission Standards, including, but not limited to:

1. ARM 17.8.304 Visible Air Contaminants. This rule requires that no person may cause or authorize emissions to be discharged into the outdoor atmosphere from any source installed after November 23, 1968, that exhibit an opacity of 20% or greater averaged over 6 consecutive minutes.
2. ARM 17.8.308 Particulate Matter, Airborne. (1) This rule requires an opacity limitation of less than 20% for all fugitive emission sources and that reasonable precautions be taken to control emissions of airborne particulate matter. (2) Under this rule, JTL shall not cause or authorize the use of any street, road, or parking lot without taking reasonable precautions to control emissions of airborne particulate matter.
3. ARM 17.8.309 Particulate Matter, Fuel Burning Equipment. This rule requires that no person shall cause or authorize to be discharged into the atmosphere particulate matter caused by the combustion of fuel in excess of the amount determined by this section.
4. ARM 17.8.310 Particulate Matter, Industrial Process. This rule requires that no person shall cause or authorize to be discharged into the atmosphere particulate matter in excess of the amount set forth in this section.
5. ARM 17.8.322 Sulfur Oxide Emissions--Sulfur in Fuel. This rule requires that no person shall burn liquid, solid, or gaseous fuel in excess of the amount set forth in this section.

6. ARM 17.8.324 Hydrocarbon Emissions--Petroleum Products. (3) No person shall load or permit the loading of gasoline into any stationary tank with a capacity of 250 gallons or more from any tank truck or trailer, except through a permanent submerged fill pipe, unless such tank truck or trailer is equipped with a vapor loss control device as described in (1) of this rule.
7. ARM 17.8.340 Standards of Performance for New Stationary Sources. This rule incorporates, by reference, 40 CFR 60, Standards of Performance for New Stationary Sources (NSPS). The owner or operator of any stationary source or modification, as defined and applied in 40 CFR Part 60, shall comply with the standards and provisions of 40 CFR Part 60.

This portable concrete plant consists of a 2006 Stephens truck mix concrete batch plant and associated equipment, including a 1993 Caterpillar Diesel Generator. The facility is not currently subject to an NSPS for the following reasons:

- Subpart F, Portland Cement Plants does not apply because the truck mix plant does not meet the definition of a Portland Cement Plant.
- Subpart OOO, Nonmetallic Mineral Processing Plants does not apply because JTL does not crush or grind nonmetallic minerals, and therefore does not meet the definition of a nonmetallic mineral processing plant.
- NSPS Subpart IIII, Stationary Compression Ignition Internal Combustion Engines, does not currently apply because the proposed diesel generator was not manufactured after April 1, 2006, or modified or reconstructed after July 11, 2006. However, since the permit is written to allow JTL to operate any diesel generator that is below 205 kW, this regulation could apply in the future.

D. ARM 17.8, Subchapter 5 - Air Quality Permit Application, Operation, and Open Burning Fees, including, but not limited to:

1. ARM 17.8.504 Air Quality Permit Application Fees. This rule requires that JTL submit an air quality permit application fee concurrent with the submittal of an air quality permit application. A permit application is incomplete until the proper application fee is paid to the Department. JTL submitted the appropriate permit application fee as required for the current permit action.
2. ARM 17.8.505 Air Quality Operation Fees. An annual air quality operation fee must, as a condition of continued operation, be submitted to the Department by each source of air contaminants holding an air quality permit, excluding an open burning permit, issued by the Department. This operation fee is based on the actual or estimated actual amount of air pollutants emitted during the previous calendar year.

An air quality operation fee is separate and distinct from an air quality permit application fee. The annual assessment and collection of the air quality operation fee, as described above, shall take place on a calendar-year basis. The Department may insert into any final permit issued after the effective date of these rules, such conditions as may be necessary to require the payment of an air quality operation fee on a calendar-year basis, including provisions that pro-rate the required fee amount.



- E. ARM 17.8, Subchapter 7 - Permit, Construction, and Operation of Air Contaminant Sources, including, but not limited to:
1. ARM 17.8.740 Definitions. This rule is a list of applicable definitions used in this chapter, unless indicated otherwise in a specific subchapter.
  2. ARM 17.8.743 Montana Air Quality Permits--When Required. This rule requires a person to obtain an air quality permit or permit alteration to construct, alter or use any asphalt plant, crusher or screen that has the Potential to Emit (PTE) greater than 15 tons per year of any pollutant. JTL has a PTE of greater than 15 tons per year of total particulate matter; therefore, an air quality permit is required.
  3. ARM 17.8.744 Montana Air Quality Permits--General Exclusions. This rule identifies the activities that are not subject to the Montana Air Quality Permit Program.
  4. ARM 17.8.745 Montana Air Quality Permits--Exclusion for De Minimis Changes. This rule identifies the de minimis changes at permitted facilities that do not require a permit under the Montana Air Quality Permit Program.
  5. ARM 17.8.748 New or Modified Emitting Units--Permit Application Requirements. (1) This rule requires that a permit application be submitted prior to installation, alteration or use of a source. JTL submitted the required permit application for the current permit action. (7) This rule requires that the applicant notify the public by means of legal publication in a newspaper of general circulation in the area affected by the application for a permit. JTL submitted an affidavit of publication of public notice for the March 25, 2007, issue of *The Bozeman Daily Chronicle*, a newspaper of general circulation in the city of Bozeman, in Gallatin County, as proof of compliance with the public notice requirements.
  6. ARM 17.8.749 Conditions for Issuance or Denial of Permit. This rule requires that the permits issued by the Department must authorize the construction and operation of the facility or emitting unit subject to the conditions in the permit and the requirements of this subchapter. This rule also requires that the permit must contain any conditions necessary to assure compliance with the Federal Clean Air Act (FCAA), the Clean Air Act of Montana, and rules adopted under those acts.
  7. ARM 17.8.752 Emission Control Requirements. This rule requires a source to install the maximum air pollution control capability that is technically practicable and economically feasible, except that Best Available Control Technology (BACT) shall be utilized. The required BACT analysis is included in Section IV of this permit analysis.
  8. ARM 17.8.755 Inspection of Permit. This rule requires that the Department shall make air quality permits available for inspection at the location of the source.
  9. ARM 17.8.756 Compliance with Other Requirements. This rule states that nothing in the permit shall be construed as relieving JTL of the responsibility for complying with any applicable federal or Montana statute, rule, or standard, except as specifically provided in ARM 17.8.740, *et seq.*

10. ARM 17.8.759 Review of Permit Applications. This rule describes the Department's responsibilities for processing permit applications and making permit decisions on those permit applications that do not require the preparation of an environmental impact statement.
  11. ARM 17.8.762 Duration of Permit. An air quality permit shall be valid until revoked or modified, as provided in this subchapter, except that a permit issued prior to construction of a new or altered source may contain a condition providing that the permit will expire unless construction is commenced within the time specified in the permit, which in no event may be less than 1 year after the permit is issued.
  12. ARM 17.8.763 Revocation of Permit. An air quality permit may be revoked upon written request of JTL, or for violations of any requirement of the Clean Air Act of Montana, rules adopted under the Clean Air Act of Montana, the FCAA, rules adopted under the FCAA, or any applicable requirement contained in the Montana State Implementation Plan (SIP).
  13. ARM 17.8.764 Administrative Amendment to Permit. An air quality permit may be amended for changes in any applicable rules and standards adopted by the Board of Environmental Review (Board) or changed conditions of operation at a source or stack that do not result in an increase of emissions as a result of those changed conditions. The owner or operator of a facility may not increase the facility's emissions beyond permit limits unless the increase meets the criteria in ARM 17.8.745 for a de minimis change not requiring a permit, or unless the owner or operator applies for and receives another permit in accordance with ARM 17.8.748, ARM 17.8.749, ARM 17.8.752, ARM 17.8.755, and ARM 17.8.756, and with all applicable requirements in ARM Title 17, Chapter 8, Subchapters 8, 9, and 10.
  14. ARM 17.8.765 Transfer of Permit. (1) This rule states that an air quality permit may be transferred from one location to another if the Department receives a complete notice of Intent to Transfer location, the facility will operate in the new location for less than 1 year, the facility will comply with the FCAA and the Clean Air Act of Montana, and the facility complies with other applicable rules. (2) This rule states that an air quality permit may be transferred from one person to another if written notice of Intent to Transfer, including the names of the transferor and the transferee, is sent to the Department.
- F. ARM 17.8, Subchapter 8 - Prevention of Significant Deterioration of Air Quality, including, but not limited to:
1. ARM 17.8.801 Definitions. This rule is a list of applicable definitions used in this subchapter.
  2. ARM 17.8.818 Review of Major Stationary Sources and Major Modification--Source Applicability and Exemptions. The requirements contained in ARM 17.8.819 through ARM 17.8.827 shall apply to any major stationary source and any major modification with respect to each pollutant subject to regulation under the FCAA that it would emit, except as this subchapter would otherwise allow.

- G. This facility is not a major stationary source because it is not listed and does not have a PTE of greater than 250 tons per year (excluding fugitive emissions) of any air pollutant. ARM 17.8, Subchapter 12 - Operating Permit Program Applicability, including, but not limited to:

1. ARM 17.8.1201 Definitions. (23) Major Source under Section 7412 of the FCAA is defined as any stationary source having:
  - a. PTE > 100 tons/year of any pollutant,
  - b. PTE > 10 tons/year of any one Hazardous Air Pollutant (HAP), PTE > 25 tons/year of a combination of all HAPs, or a lesser quantity as the Department may establish by rule, or
  - c. PTE > 70 tons/year of particulate matter with an aerodynamic parameter of 10 microns or less (PM<sub>10</sub>) in a serious PM<sub>10</sub> nonattainment area.
2. ARM 17.8.1204 Air Quality Operating Permit Program Applicability. (1) Title V of the FCAA Amendments of 1990 requires that all sources, as defined in ARM 17.8.1204 (1), obtain a Title V Operating Permit. In reviewing and issuing Air Quality Permit #4068-00 for JTL, the following conclusions were made:
  - a. The facility's PTE is less than 100 tons/year for any air pollutant.
  - b. The facility's PTE is less than 10 tons/year of any one HAP and less than 25 tons/year of all HAPs.
  - c. This source is not located in a serious PM<sub>10</sub> nonattainment area.
  - d. This facility is not subject to any current NSPS standards.
  - e. This facility is not subject to any current NESHAP standards.
  - f. This source is not a Title IV affected source or a solid waste combustion unit.
  - g. This source is not an EPA designated Title V source.

Based on these facts, the Department determined that this facility would be a minor source of emissions, as defined under the Title V Operating Permit Program.

### III. Emission Inventory

Source	Tons/Year					
	PM	PM <sub>10</sub>	NOx	VOC	CO	SOx
Aggregate Delivery to Ground Storage	6.04	2.89				
Sand Delivery to Ground Storage	0.92	0.44				
Aggregate Transfer to Conveyor	6.04	2.89				
Sand Transfer to Conveyor	0.92	0.44				
Aggregate Transfer to Elevated Storage	6.04	2.89				
Sand Transfer to Elevated Storage	0.92	0.44				
Cement Delivery to Storage Silo	0.13	0.04				
Cement Supplement (Fly ash) Unloading to Silo	0.39	0.22				
Weigh Hopper Loading of Sand/Aggregate	4.47	2.10				
Truck Mix Loading of Cement/Supplement/Sand/Aggregate	6.96	1.97				
Diesel Generator (up to 205 kW)	0.83	0.83	27.07	0.74	7.18	0.44
Haul Roads	12.68	3.60				
<b>Total</b>	<b>46.34</b>	<b>18.75</b>	<b>27.07</b>	<b>0.74</b>	<b>7.18</b>	<b>0.44</b>

**Note:** A complete emission inventory for Permit #4068-00 is on file with the Department.

### IV. BACT Determination

A BACT determination is required for any new or altered source. JTL shall install on any new or altered source the maximum air pollution control capability that is technologically practicable and economically feasible, except that BACT shall be used.

#### A. Area Source Fugitives Emissions

Two types of emissions controls are readily available and used for dust suppression of fugitive emissions at the site, and fugitive emissions for the surrounding area of operation. These two control methods are water and chemical dust suppressant. Chemical dust suppressant could be used for dust suppression on the area surrounding the operation. However, because water is more readily available, is more cost effective, is equally effective as chemical dust suppressant, and is more environmentally friendly, water has been identified as the most appropriate method of pollution control of particulate emissions for the general plant area. In addition, water suppression has been required of recently permitted similar sources. JTL may, however, use chemical dust suppressant to assist in controlling particulate emissions from the surrounding plant area.

JTL shall not cause or authorize to be discharged into the atmosphere from any non-NSPS affected equipment, any visible emissions that exhibit an opacity of 20% or greater averaged over 6 consecutive minutes. JTL must also take reasonable precautions to limit the fugitive emissions of airborne particulate matter from haul roads, access roads, parking areas, and the general area of operation. JTL is required to have water available on site (at all times) and to apply the water, as necessary, to maintain compliance with the opacity and reasonable precaution limitations. JTL may also use chemical dust suppression, in order to maintain compliance with emissions limitations in Section I.A of Permit #4068-00. The Department determined that using water spray bars and water to control dust emissions from the conveyors and maintain compliance with the opacity requirements and reasonable precaution limitations constitutes BACT for the concrete batch plant operation.

B. Cement Fugitives

All visible emissions from any cement and cement supplement silo (or vent), truck loading or unloading operations, or any material transferring operations shall be limited to less than 20% opacity. JTL shall use a fabric filter dust collector for the cement silo and a rubber boot load-out spout on the cement batcher. The Department determined that using a fabric filter dust collector and a load-out spout to maintain compliance with the opacity limitations constitutes BACT for these sources.

V. Existing Air Quality

Permit #4068-00 is issued for the operation of a portable truck mix concrete batch plant to be originally located at 47477 Gallatin Road, Big Sky, Montana in the NE ¼ Section 5, Township 7 South, Range 4 East, in Gallatin County, Montana. This facility would be allowed to operate at this proposed site and any other areas designated as attainment or unclassified for all National Ambient Air Quality Standards (NAAQS); excluding counties that have a Department approved permitting program, areas considered Tribal Lands, or areas in or within 10 kilometers (km) of certain PM<sub>10</sub> nonattainment areas. The permit contains operational conditions and limitations that would protect air quality for this site and the surrounding area. Also, this facility is a portable source that would operate on an intermittent and temporary basis, so any effects to air quality will be minor and short-lived.

VI. Ambient Air Quality Impacts

This permit is for a portable truck mix concrete batch plant to be located in various locations around Montana. The amount of controlled particulate emissions generated by this project should not cause concentrations of PM<sub>10</sub> in the ambient air that exceed any set standard. In addition, this source is portable and any air quality impacts will be short-lived.

VII. Taking or Damaging Implication Analysis

As required by 2-10-101 through 105, MCA, the Department conducted a private property taking and damaging assessment and determined there are no taking or damaging implications.

VIII. Environmental Assessment

An environmental assessment, required by the Montana Environmental Policy Act, was completed for this project. A copy is attached.

Addendum #1  
JTL Group, Inc.  
Permit #4068-00

An addendum to Montana Air Quality Permit #4068-00 is issued to JTL Group, Inc. (JTL), pursuant to Sections 75-2-204 and 75-2-211 of the Montana Code Annotated (MCA), as amended, and the Administrative Rules of Montana (ARM) 17.8.765, as amended, for the following:

I. Permitted Equipment

JTL will operate a portable 100 cubic yard per hour truck mix concrete batch plant at various locations throughout Montana. This permit allows JTL to operate a Stephens aggregate and cement batcher and a 205 kilowatt (kW) (equivalent to 275 horsepower (HP)) diesel engine. A complete list of the permitted equipment is contained in Section I.A of the Permit Analysis.

Addendum #1 applies to the JTL portable truck mix concrete batch plant while operating at any location in or within 10 kilometers (km) of particulate matter with an aerodynamic diameter of 10 microns or less (PM<sub>10</sub>) nonattainment areas during the summer months (April 1 – September 30) and at sites approved by the Department of Environmental Quality (Department) during the winter months (October 1 – March 31).

II. Seasonal and Site Restrictions – Winter and Summer Season

Addendum #1 applies to the JTL portable truck mix concrete batch plant while operating at any location in or within 10 km of certain PM<sub>10</sub> nonattainment areas. Additionally, seasonal and site restrictions apply to the facility as follows:

- A. During the winter season (October 1-March 31), the only location(s) in or within 10 km of certain PM<sub>10</sub> nonattainment areas where JTL may operate is:
  - Any site that may be approved, in writing, by the Department.
- B. During the summer season (April 1-September 30), JTL may operate at any location in or within 10 km of the Butte, Columbia Falls, Libby, Kalispell, Thompson Falls, and Whitefish PM<sub>10</sub> nonattainment areas.
- C. JTL shall comply with the limitations and conditions contained in Addendum #1 to Permit #4068-00. Addendum #1 shall be valid until revoked or modified. The Department reserves the authority to modify Addendum #1 at any time based on local conditions of any future site. These conditions may include, but are not limited to, local terrain, meteorological conditions, proximity to residences or other businesses, etc.

III. Limitations and Conditions

- A. Operational Limitations and Conditions – **Winter Season (October 1 – March 31)**
  - 1. Water spray bars must be operated when necessary on all conveyors whenever the plant is operating (ARM 17.8.749).
  - 2. All visible emissions from the plant may not exhibit an opacity of 10% or greater averaged over 6 consecutive minutes (ARM 17.8.749).
  - 3. JTL shall not cause or authorize to be discharged into the atmosphere from equipment, such as transfer points, any visible emissions that exhibit an opacity of 10% or greater averaged over 6 consecutive minutes (ARM 17.8.749).

4. JTL shall not cause or authorize to be discharged into the atmosphere from haul roads, access roads, parking lots, or the general plant property any visible fugitive emissions that exhibit an opacity of 10% or greater averaged over 6 consecutive minutes (ARM 17.8.749).
5. JTL shall treat all unpaved portions of the haul roads, access roads, parking lots, and general plant area with water and/or chemical dust suppressant as necessary to maintain compliance with the 10% opacity limitation (ARM 17.8.749).
6. Concrete plant production is limited to 1849 cubic yards during any rolling 24-hour time period (ARM 17.8.749).
7. JTL shall not operate more than one diesel engine at any given time and the maximum rated design capacity of the engine shall not exceed 205 kW (275 HP) (ARM 17.8.749).

**B. Operational Limitations and Conditions – Summer Season (April 1 – September 30)**

1. Water spray bars must be operated when necessary on all conveyors whenever the plant is operating (ARM 17.8.749).
2. All visible emissions from the plant may not exhibit an opacity of 10% or greater averaged over 6 consecutive minutes (ARM 17.8.749).
3. JTL shall not cause or authorize to be discharged into the atmosphere from equipment, such as transfer points, any visible emissions that exhibit an opacity of 10% or greater averaged over 6 consecutive minutes (ARM 17.8.749).
4. JTL shall not cause or authorize to be discharged into the atmosphere from haul roads, access roads, parking lots, or the general plant property any visible fugitive emissions that exhibit an opacity of 10% or greater averaged over 6 consecutive minutes (ARM 17.8.749).
5. JTL shall treat all unpaved portions of the haul roads, access roads, parking lots, and general plant area with water and/or chemical dust suppressant as necessary to maintain compliance with the 10% opacity limitation (ARM 17.8.749).
6. Concrete plant production is limited to 2400 cubic yards during any rolling 24-hour time period (ARM 17.8.749).
7. JTL shall not operate more than one diesel engine at any given time and the maximum rated design capacity of the engine shall not exceed 205 kW (275 HP) (ARM 17.8.749).

**C. Operational Reporting Requirements**

1. JTL shall provide the Department with written notification of job completion within 10 working days of job completion (ARM 17.8.749).
2. JTL shall provide the Department with written notice of relocation of the permitted equipment within 15 working days before the physical transfer of the equipment (ARM 17.8.765).
3. Production information for the sites covered by this addendum must be submitted

to the Department with the annual emission inventory request or within 30 days of completion of the project. The information must include (ARM 17.8.749):

- a. Tons of bulk material loaded at each site;
  - b. Daily hours of operation at each site;
  - c. Gallons of diesel fuel used for the generators/engines at each site;
  - d. Fugitive dust information consisting of a listing of all plant vehicles including the following for each vehicle type:
    - i. Number of vehicles;
    - ii. Vehicle type;
    - iii. Vehicle weight, loaded;
    - iv. Vehicle weight, unloaded;
    - v. Number of tires on vehicle;
    - vi. Average trip length;
    - vii. Number of trips per day per vehicle;
    - viii. Average vehicle speed;
    - ix. Area of activity; and
    - x. Vehicle fuel usage (gasoline or diesel) annual total.
  - e. Fugitive dust control for haul roads and general plant area:
    - i. Hours of operation of water trucks; and
    - ii. Application schedule for chemical dust suppressant, if applicable.
4. JTL shall document, by day, the total concrete plant production during the winter season. JTL shall sum the total concrete plant production during the previous 24 hours to verify compliance with the limitation in Section III.A.6. A written report of compliance verification and the emissions inventory shall be submitted to the Department annually. The report for the previous calendar year shall be submitted along with the annual emission inventory (ARM 17.8.749).
5. JTL shall document, by day, the total concrete plant production during the summer season. JTL shall sum the total concrete plant production during the previous 24 hours to verify compliance with the limitation in section III.B.6. A written report of compliance verification and the emissions inventory shall be submitted to the Department annually. The report for the previous calendar year shall be submitted along with the annual emission inventory (ARM 17.8.749).



Addendum #1 Analysis  
JTL Group, Inc.  
Permit #4068-00

I. Permitted Equipment

JTL Group, Inc. (JTL) will operate a portable 100 cubic yard per hour truck mix concrete batch plant at various locations throughout Montana. This permit allows JTL to operate a Stephens aggregate and cement batcher and a 205 kilowatt (kW) (275 horsepower (HP)) diesel engine. A complete list of the permitted equipment is contained in Section I.A of the Permit Analysis.

Addendum #1 applies to the JTL truck mix concrete batch plant while operating at any location in or within 10 kilometers (km) of particulate matter with an aerodynamic parameter of 10 microns or less (PM<sub>10</sub>) nonattainment areas during the summer months (April 1 – September 30) and at sites approved by the Department of Environmental Quality (Department) during the winter months (October 1 – March 31).

II. Source Description

JTL proposes to use this concrete plant and associated equipment to load trucks for various construction operations. For a typical operation setup, stockpiles of sand and gravel for concrete production are stored on site. A loader transfers the sand and gravel from the stockpiles to a weight hopper and the sand and gravel is then conveyed into the batch plant. The cement silo and cement supplement (fly ash) silo transfer the cement and cement supplement into the batch plant where water is added. The sand, gravel, cement, cement supplement, and water are then loaded into mixing trucks where the materials are mixed together to form concrete. The concrete is then transferred to various construction operations.

III. Applicable Rules and Regulations

The following are partial quotations of some applicable rules and regulations that apply to the facility. The complete rules are stated in the Administrative Rules of Montana (ARM) and are available, upon request, from the Department. Upon request, the Department will provide references for locations of complete copies of all applicable rules and regulations or copies where appropriate.

ARM 17.8, Subchapter 7 - Permit, Construction and Operation of Air Contaminant Sources, including, but not limited to:

- A. ARM 17.8.749 Conditions for Issuance of Permit. This rule requires that the source demonstrate compliance with applicable rules and standards before a permit can be issued. Also, a permit may be issued with such conditions as are necessary to assure compliance with all applicable rules and standards. JTL demonstrated compliance with all applicable rules and standards as required for permit issuance.
- B. ARM 17.8.764 Modification of Permit. An air quality permit may be modified for changes in any applicable rules and standards adopted by the Board of Environmental Review (Board) or changed conditions of operation at a source or stack which do not result in an increase in emissions because of the changed conditions. A source may not increase its emissions beyond those found in its permit unless the source applies for and receives another permit.

C. ARM 17.8.765 Transfer of Permit. An air quality permit may be transferred from one location to another if:

1. Written notice of Intent to Transfer location and proof of public notice are sent to the Department;
2. The source will operate in the new location for a period of less than 1 year; and
3. The source will not have any significant impact on any nonattainment area or any Class I area.

JTL must submit proof of compliance with the transfer and public notice requirements when JTL transfers to any of the locations covered by this addendum and will only be allowed to stay in the new location for a period of less than 1 year. Also, the conditions and limitations in Addendum #1 to Permit #4068-00 will prevent JTL from having a significant impact on PM<sub>10</sub> nonattainment areas.

#### IV. Emission Inventory

Source	Lb/day					
	PM	PM <sub>10</sub>	NO <sub>x</sub>	VOC	CO	SO <sub>x</sub>
Aggregate Delivery to Ground Storage	25.68	12.24				
Sand Delivery to Ground Storage	3.84	1.92				
Aggregate Transfer to Conveyor	25.68	12.24				
Sand Transfer to Conveyor	3.84	1.92				
Aggregate Transfer to Storage Bins	25.68	12.24				
Sand Transfer to Storage Bins	3.84	1.92				
Cement Delivery to Silo	0.72	0.24				
Cement Supplement Unloading to Silo	2.16	1.20				
Weigh Hopper Loading of Sand/Aggregate	18.96	8.88				
Truck Mix Loading of Cement/Supplement/Sand/Aggregate	29.52	8.40				
Diesel Generator	4.56	4.56	148.32	4.08	39.36	2.40
Haul Roads	55.68	15.84				
<b>TOTAL</b>	<b>200.16</b>	<b>81.36</b>	<b>148.32</b>	<b>4.08</b>	<b>39.36</b>	<b>2.40</b>

#### V. Air Quality Impacts

On July 1, 1987, the Environmental Protection Agency (EPA) promulgated new National Ambient Air Quality Standards (NAAQS) for PM<sub>10</sub>. Due to exceedances of the national standards for PM<sub>10</sub>, the cities of Kalispell (and the nearby Evergreen area), Columbia Falls, Butte, Whitefish, Libby, Missoula, and Thompson Falls were designated by EPA as nonattainment for PM<sub>10</sub>. As a result of this designation, EPA required the Department and the City-County Health Departments to submit PM<sub>10</sub> State Implementation Plans (SIP). The SIPs consisted of emission control plans that controlled fugitive dust emissions from roads, parking lots, construction, and demolition, since technical studies determined these sources to be the major contributors to PM<sub>10</sub> emissions.

Addendum #1 to Permit #4068-00 is for a portable concrete plant located at sites in or within 10 km of certain PM<sub>10</sub> nonattainment areas during the winter season (October 1 through March 31). Winter season operations many include only the locations listed in Section II.A of Addendum #1.

Addendum #1 of Permit #4068-00 would also allow for summertime operations (April 1 – September 30) at any location in or within 10 km of the Butte, Columbia Falls, Libby, Kalispell, Thompson Falls, and Whitefish PM<sub>10</sub> nonattainment areas.

VI. Taking or Damaging Implication Analysis

As required by 2-10-101 through 105, Montana Code Annotated (MCA), the Department conducted a private property taking and damaging assessment and determined there are no taking or damaging implications.

VII. Environmental Assessment

An environmental assessment, required by the Montana Environmental Policy Act, was completed for this project. A copy is attached.

DEPARTMENT OF ENVIRONMENTAL QUALITY  
Permitting and Compliance Division  
Air Resources Management Bureau  
P.O. Box 200901, Helena, Montana 59620  
(406) 444-3490

**FINAL ENVIRONMENTAL ASSESSMENT (EA)**

Issued For: JTL Group, Inc. - Belgrade  
P.O. Box 9  
Belgrade, MT 59714

Air Quality Permit Number: 4068-00

*Preliminary Determination Issued: 4/19/2007*

*Department Decision Issued: 5/07/07*

*Permit Final: 05/23/07*

1. *Legal Description of Site:* This permit is for the operation of a portable truck mix concrete batch plant and associated equipment to be initially located at 47477 Gallatin Road, Big Sky, Montana in the NE ¼ Section 5, Township 7 South, Range 4 East, in Gallatin County, Montana. Permit #4068-00 would apply while operating at any location in Montana, except within those areas having a Department-approved permitting program, areas considered tribal lands, or areas in or within 10 km of certain PM<sub>10</sub> nonattainment areas. *A Missoula County air quality permit would be required for locations within Missoula County, Montana.*

Addendum #1 applies to the JTL facility while operating at any location in or within 10 km of nonattainment areas for PM<sub>10</sub> during the summer months (April 1 – September 30) and at sites approved by the Department during the winter months (October 1 – March 31). A complete list of the permitted equipment is contained in Section I.A of the permit analysis.

2. *Description of Project:* JTL submitted a permit application for the construction and operation of a portable truck mix concrete batch plant, which includes a 2006 Stephens Portable Concrete Plant (maximum capacity of 100 cubic yards per hour) and a 1993 Caterpillar diesel engine (205 kW or 275 HP), and associated equipment. A fabric filter dust collector controls particulate emissions from the cement silo. A rubber boot load-out spout controls particulate emissions from the cement batcher.
3. *Objectives of the Project:* JTL, in an effort to increase business and revenue for the company through the construction of the proposed truck mix concrete batch plant and associated equipment, submitted a complete permit application for the proposed equipment. The concrete batch plant would be used to supply wet mix concrete for sale and use in various construction operations and would allow JTL to operate the portable equipment at various locations throughout Montana, including the proposed initial site location.
4. *Additional Project Site Information:* In many cases, the truck mix concrete batch plant operation may move to a general site location, or open cut pit, which has been previously permitted through the Industrial and Energy Minerals Bureau (IEMB). If this were the case, a more extensive EA for the site would have been conducted and would be found in the Mined Land Reclamation Permit for that specific site.

5. *Alternatives Considered:* In addition to the proposed action, the Department also considered the "no-action" alternative. The "no-action" alternative would deny issuance of the air quality preconstruction permit to the proposed facility. However, the Department does not consider the "no-action" alternative to be appropriate because JTL demonstrated compliance with all applicable rules and regulations as required for permit issuance. Therefore, the "no-action" alternative was eliminated from further consideration.
6. *A Listing of Mitigation, Stipulations, and Other Controls:* A listing of the enforceable permit conditions and a permit analysis, including a BACT analysis, would be contained in Permit #4068-00.
7. *Regulatory Effects on Private Property Rights:* The Department considered alternatives to the conditions imposed in this permit as part of the permit development. The Department determined the permit conditions would be reasonably necessary to ensure compliance with applicable requirements and to demonstrate compliance with those requirements and would not unduly restrict private property rights.
8. *The following table summarizes the potential physical and biological effects of the proposed project on the human environment.* The "no-action" alternative was discussed previously.

		Major	Moderate	Minor	None	Unknown	Comments Included
A.	Terrestrial and Aquatic Life and Habitats			X			yes
B.	Water Quality, Quantity, and Distribution			X			yes
C.	Geology and Soil Quality, Stability, and Moisture			X			yes
D.	Vegetation Cover, Quantity, and Quality			X			yes
E.	Aesthetics			X			yes
F.	Air Quality			X			yes
G.	Unique Endangered, Fragile, or Limited Environmental Resource			X			yes
H.	Demands on Environmental Resource of Water, Air, and Energy			X			yes
I.	Historical and Archaeological Sites				X		yes
J.	Cumulative and Secondary Impacts			X			yes

#### **Summary of Comments on Potential Physical and Biological Effects:**

The Department has prepared the following comments.

##### **A. Terrestrial and Aquatic Life and Habitats**

Terrestrials and aquatic life would use the same areas in which the concrete batch plant would operate. The concrete batch plant operations would be considered a minor source of emissions, by industrial standards, with intermittent and seasonal operations. Therefore, only minor effects on terrestrial life would be expected as a result of equipment operations or from pollutant deposition because the emissions from the facility would be minor.

Impacts on aquatic life could result from storm water runoff and pollutant deposition, but such impacts would be minor as the facility would be a minor source of emissions (with seasonal and intermittent operations) and only minor amounts of water would be required to be used for pollution control. Since only a minor amount of air emissions would be generated, only minor deposition (see Section 8.F of this EA) would occur.

B. Water Quality, Quantity, and Distribution

Although there would be an increase in air emissions in the area where the concrete batch plant would operate, there would be little, if any impacts on water quality, quantity, and distribution because of the relatively small size and temporary nature of the operation. Water would be used for making the concrete and for dust suppression on the surrounding roadways and areas of operation. However, water use would only cause a minor disturbance to these areas, since only relatively small amounts of water would be needed. Overall, the concrete batch plant operations would result in only minor impacts to water quality, quantity, and distribution.

C. Geology and Soil Quality, Stability, and Moisture

There would be minor impacts to the geology and soil quality, stability, and moisture near the plant's operational area due to facility construction, increased vehicle traffic, the use of water to control dust, and deposition of pollutants from concrete batch operations. As explained in Section 8.F. of this EA, the relatively small size and temporary nature of the operation, dispersion characteristics of particles and the area, and conditions placed in Permit #4068-00 would minimize the impacts from deposition

D. Vegetation Cover, Quantity, and Quality

Because the facility would operate at an existing open-cut pit (at a site where good pollutant dispersion would occur and vegetation has been previously removed/disturbed) and because the facility would be a relatively minor source of emissions, impacts from the emissions leaving the site and depositing on vegetation (surrounding hay land) would be minor. As described in Section 8.F of this EA, the amount of air emissions from this facility would be minor. As a result, the corresponding deposition of the air pollutants on the surrounding vegetation would also be minor. Also, because the water usage is minimal (as described in Section 8.B) and the associated soil disturbance is minimal (as described in Section 8.C) corresponding vegetative impacts would be minor.

E. Aesthetics

The proposed operation would be visible and would create additional noise while operating in this area. However, Permit #4068-00 would include conditions to control emissions, including visible emissions, from the plant. Also, because the proposed operation would be portable, would operate on an intermittent and seasonal basis, would replace an existing concrete plant, and 15 acres of the 44.5 acre property are currently permitted for use for a gravel operation, any additional visual and noise impacts would be minor and short-lived.

F. Air Quality

Air quality impacts from the proposed project would be minor because Permit #4068-00 would limit the facility's opacity, as well as would require a fabric filter dust collector and a rubber boot load-out spout to control facility emissions. Furthermore, Permit #4068-00 would limit total emissions from JTL's facility and any additional JTL

equipment operated at the site to 250 tons/year or less, excluding fugitive emissions. The permit would also require dust suppression to control fugitive emissions. Furthermore, the plant would be operated intermittently, would have a facility production limit (thereby further reducing potential air quality impacts from the facility), and could operate at other locations.

The Department has determined that the proposed facility would be a minor source of emissions as defined under the Title V Operating Permit Program because the source's PTE would be below the major source threshold level of 100 tons per year for any regulated pollutant (excluding fugitives, per the major source definition). Pollutant deposition from the facility would be minimal because the pollutants emitted would be widely dispersed (from factors such as wind speed and wind direction) and would have minimal deposition on the surrounding area (due to the topography of the area and minimal vegetative cover in the area). Pollutants would be well dispersed before reaching any water resource, aquatic life in the water resource, terrestrial life and soils surrounding the proposed operational site, humans working and living in the surrounding area, and agricultural production in the surrounding area. Therefore, any air quality impacts from operating the proposed facility in this area would be intermittent and minor to the existing resources in the area of operation.

G. Unique Endangered, Fragile, or Limited Environmental Resources

According to the Montana Natural Heritage Program (MNHP), there are four known environmental resources of special concern within the initial proposed area of operation. The search area, in this case, is defined by the township and range of the proposed site, with an additional one-mile buffer. The resources of special concern are the Slender Indian Paint Brush, Canada Lynx, Grizzly Bear, and Olive-sided Flycatcher. However, at least 15 acres of the 44.5 acre facility for the proposed project is within a disturbed industrial site, the proposed project will replace an existing concrete plant, and the area has been mined in the past. Therefore, only minor impacts to any unique endangered, fragile, or limited environmental resources would be expected to occur.

H. Demands on Environmental Resources of Water, Air, and Energy

Due to the size of the facility, the concrete batch plant would only require small quantities of water, air, and energy for proper operation. Small quantities of water would be used for dust suppression and for the concrete batching operations. Approximately 20 gallons of water would be needed for every cubic yard of concrete produced. Water would also be used for dust suppression. Impacts to air resources would be minor because the source is small by industrial standards, with intermittent and seasonal operations, and because air pollutants generated by the facility would disperse. Ambient concentrations of air contaminants would comply with ambient standards. Energy would be provided by electrical power. Therefore, any impacts to water, air, and energy resources would be minor.

I. Historical and Archaeological Sites

The proposed project is to operate within a previously disturbed industrial site. According to the Montana Historical Society - State Historical Preservation Office (SHPO), there have been no previously recorded sites in the area. Furthermore, SHPO has previously stated that it is unlikely that there would be a disturbance to any known historical and/or archaeological sites given previous industrial activity. Therefore, no impacts upon historical or archaeological sites would be expected as a result of operating

the proposed concrete batch plant.

J. Cumulative and Secondary Impacts

The operation would cause minor cumulative and secondary impacts to the physical and biological aspects of the human environment because the facility would generate emissions of particulate matter (PM) and PM<sub>10</sub>. Noise would also be generated from equipment operations. Emissions and noise would cause minimal disturbance to the surrounding environment because the equipment is small and the facility would be expected to operate in areas designated and used for concrete production, which would include the proposed initial site location. Additionally, this facility may operate in combination with other facilities owned and operated by JTL. However, total emissions from JTL's operations at the operational site would not be permitted to exceed 250 tons per year of non-fugitive emissions. Overall, any cumulative or secondary impacts to the physical and biological aspects of the human environment would be minor.

9. The following table summarizes the potential economic and social effects of the proposed project on the human environment. The "no-action" alternative was discussed previously.

		Major	Moderate	Minor	None	Unknown	Comments Included
A.	Social Structures and Mores				X		yes
B.	Cultural Uniqueness and Diversity				X		yes
C.	Local and State Tax Base and Tax Revenue			X			yes
D.	Agricultural or Industrial Production			X			yes
E.	Human Health			X			yes
F.	Access to and Quality of Recreational and Wilderness Activities			X			yes
G.	Quantity and Distribution of Employment			X			yes
H.	Distribution of Population				X		yes
I.	Demands for Government Services			X			yes
J.	Industrial and Commercial Activity			X			yes
K.	Locally Adopted Environmental Plans and Goals			X			yes
L.	Cumulative and Secondary Impacts			X			yes

**SUMMARY OF COMMENTS ON POTENTIAL ECONOMIC AND SOCIAL EFFECTS:**

The Department has prepared the following comments.

A. Social Structures and Mores

The facility would cause no disruption to the social structures and mores in the area because of the location of the source, size of the source, portable and temporary nature of the source, and intermittent and seasonal operations of the source. The facility would be located on private land in a rural setting. Additionally, the facility would be a minor source of air pollution, would be a relatively small sized industrial operation, and would be required to operate under the conditions in Permit #4068-00. Also, the predominant use of the surrounding areas would not change as a result of this project. Thus, no



impacts upon social structures or mores would result.

B. Cultural Uniqueness and Diversity

The cultural uniqueness and diversity of this area would not be impacted by the proposed operation because this site is currently designated and used for the mining of aggregate and is separated from the general population. Additionally, the facility would be considered a portable/temporary source with seasonal and intermittent operations. Therefore, the predominant use of the surrounding areas would not change as a result of this project and the cultural uniqueness and diversity of the area would not be affected.

C. Local and State Tax Base and Tax Revenue

The operation would have little, if any, impact on the local and state tax base and tax revenue because the facility would be a relatively small industrial source (minor source) and would have seasonal and intermittent operations. Thus, only minor impacts to the local and state tax base and revenue could be expected from the employees and facility production. Furthermore, the impacts to local tax base and revenue would be minor because the source would also be portable and the money generated for taxes would be widespread.

D. Agricultural or Industrial Production

The concrete batch operations would have only a minor impact on local industrial production since the facility would be a relatively small industrial source of concrete production and air emissions. Also, the facility would locate in an existing permitted open-cut pit, adjacent to an area that could be used for animal grazing and agricultural production. However, the facility operations would be small and temporary in nature and would be permitted with operational conditions and limitations that would minimize impacts on surrounding vegetation (as described in Section 8.D of this EA). Pollution control would be utilized for equipment operations and production limits would be established to minimize emissions.

E. Human Health

Permit #4068-00 would incorporate conditions to ensure that the permitted facility would be operated in compliance with all applicable air quality rules and standards. These rules and standards are designed to be protective of human health. As described in Section 8.F. of this EA, the air emissions from this facility would be minimized by the use of a fabric filter dust collector, a rubber boot load-out spout, water and water spray on the conveyors, and facility production limits that would be required by Permit #4068-00. Also, the facility would be operating on an intermittent basis and pollutants would be dispersed. Therefore, only minor impacts would be expected on human health from the proposed facility.

F. Access to and Quality of Recreational and Wilderness Activities

About 15 acres of the 44.5 acres where the concrete batch plant would operate have previously been disturbed for a gravel-crushing operation, and the general area has been used for mining operations in the past. In addition, there is currently a concrete plant which will be replaced by the proposed operation. Access to the Gallatin River and Gallatin State Wildlife Management area are across Highway 191 and will not be affected. Therefore, no impacts upon the access to recreational and wilderness activities

would result.

Noise from the facility would be minor because the facility is a small operation. Also, the facility would operate on a seasonal and intermittent basis and would be a relatively minor industrial emissions source. Therefore, any changes in the quality of recreational and wilderness activities created by operating the equipment at this site would be expected to be minor and intermittent.

G. Quantity and Distribution of Employment

The concrete batch plant operation would likely require the existing eight employees to operate and would have seasonal and intermittent operations. No individuals would be expected to permanently relocate to this area of operation as a result of operating the proposed facility. Therefore, only minor effects upon the quantity and distribution of employment in this area would be expected.

H. Distribution of Population

The concrete batch plant operation is small and would likely require existing employees to operate. No individuals would be expected to permanently relocate to this area of operation as a result of operating the concrete batch plant facility, which would have only intermittent and seasonal operations, and is a portable source. Therefore, the proposed facility would not disrupt the normal population distribution.

I. Demands of Government Services

Minor increases would be seen in traffic on existing roadways in a given area while the concrete batch plant operation is in progress. In addition, government services would be required for acquiring the appropriate permit from government agencies and determining compliance with the permit. Demands for government services would be minor.

J. Industrial and Commercial Activity

The proposed operation would represent only a minor increase in the industrial activity in this or any other area of operation because the source would be a relatively small industrial source that would be portable and temporary in nature. No additional industrial or commercial activity would be expected as a result of the proposed operation.

K. Locally Adopted Environmental Plans and Goals

JTL would be allowed, by permit, to operate in areas designated by EPA as attainment or unclassified. Permit #4068-00 would contain limits for protecting air quality and to keep facility emissions in compliance with any applicable ambient air quality standards, as a locally adopted environmental plan or goal for operating at this proposed site. Because the facility would be a small and portable source, and would have intermittent and seasonal operations, any impacts from the facility would be minor and short-lived.

L. Cumulative and Secondary Impacts

The concrete batch operations would cause minor cumulative and secondary impacts to the social and economic aspects of the human environment in the immediate areas of operation because the source is a portable and temporary source. This facility is expected to be used with Permit #3288-01, a portable crushing operation. Minor increases in

traffic would have minor effects on local traffic in the immediate area. Because the source is relatively small and temporary, only minor economic impacts to the local economy would be expected from operating the facility. Further, this facility may be operated in conjunction with other equipment owned and operated by JTL, but any cumulative impacts upon the social and economic aspects of the human environment would be minor and short-lived. Thus, only minor and temporary cumulative effects would result to the local economy.

*Recommendation:* An Environmental Impact Statement (EIS) is not required.

*If an EIS is not required, explain why the EA is an appropriate level of analysis:* All potential effects resulting from construction and operation of the proposed facility are minor; therefore, an EIS is not required.

*Other groups or agencies contacted or which may have overlapping jurisdiction:* Montana Department of Environmental Quality - Permitting and Compliance Division (Industrial and Energy Minerals Bureau); Montana Natural Heritage Program; and the State Historic Preservation Office (Montana Historical Society).

*Individuals or groups contributing to this EA:* Department of Environmental Quality (Air Resources Management Bureau and Industrial and Energy Minerals Bureau), Montana State Historic Preservation Office (Montana Historical Society).

EA prepared by: Christine Weaver  
Date: March 28, 2007